

GT-M80, GT-M100, GT-B10, GT-B12, GT-B210  
AUTOMOTIVE SPEAKER SYSTEMS  
INSTALLATION/OWNER'S MANUAL

JBL

GT-M80

GT-M100

GT-B10

GT-B12

GT-B210



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## INTRODUCTION

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Thank you for selecting JBL GT Series speakers for your car audio system. The GT Series speakers deliver exceptional performance, are very rugged and fit into most popular vehicles. JBL speakers are built with close attention to detail, using only the highest quality materials. They will provide many years of excellent performance.

JBL loudspeakers are the result of concentrated efforts to combine traditional JBL performance values with rugged road worthiness at affordable prices. Some of the engineering features of the JBL GT Series are:

1) *High output levels.* This means that modest amplifiers will be able to produce sound pressure levels normally associated with amplifiers of substantially higher power ratings.

2) *Acoustically Optimized Cabinets.* Provide smooth uncolored sound and eliminate unwanted resonances.

3) *High Quality Crossover Networks.* The GT-B10, GTB12, and the GT- B210 include a high quality crossover which has been computer designed for optimum performance.

4) *Loud + Clear Sticker.* A Loud + Clear sticker is included. Feel free to place it in a location of your choice.

Thanks to their high efficiency, the JBL GT loudspeakers can produce high sound pressure levels in your car with very little amplifier power. However, using a small amplifier to obtain the desired volume listening levels may lead to overdriving the unit. This will generate high distortion levels and may cause damage to your loudspeakers. For the best performance, an amplifier should be selected with an output rating that is greater than the maximum power that will be used. This margin of reserve power will ensure that the amplifier will

not attempt to deliver more power than its design allows. However, the power amplifier's power rating per channel must not exceed the peak power rating for that specific loudspeaker model. Please see the specifications section for details. Following these two guidelines will provide virtually distortion-free sound reproduction and long loudspeaker life. For the best performance, match JBL speakers with high quality JBL electronics.

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## GENERAL INSTALLATION GUIDELINES:

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We recommend that you have your JBL GT speakers professionally installed by an authorized JBL automotive dealer. If you choose to do your own installation please read the following information which is critical for optimum performance of your JBL GT speakers.

## Placement

JBL speakers are designed for the rigors of the automotive environment and can withstand temperatures which can range from -40 to +200 degrees and extreme humidity. However, you can effectively increase the life of your JBL loudspeakers by avoiding installations which may expose them to moisture or water. Select installation locations very carefully; CAUTION: Look for critical components, such as electrical wiring, hydraulic brake lines, the fuel tank or the fuel lines that may be damaged when drilling holes to secure the speakers. Be extremely cautious because sometimes these components are hidden within double-walled panels. Do not drill until you are sure that doing so will not damage such critical components. Damage to these components can cause immediate or delayed injury and/or property damage.

## Securing Your Speakers

The GT speaker systems are designed for easy installation in most cars. However, the speakers should be properly fastened to the vehicle with screws, brackets and / or tie-down straps to prevent movement of the speaker system while the car is in motion. Securing the speakers properly to the car can be a difficult task because of possible interference or damage to car electronics or fuel systems from the screws. Because of this, you should consider having your speaker system installed by a professional if you do not feel your installation skill is sufficient. Failure to secure the speakers properly with commercially available hardware may result in damage to people and property.

## Impedance

JBL speakers have a 4 ohm impedance rating. They will work with most amplifiers rated for 4 ohms or lower impedance. When in doubt, contact the manufacturer of the amplifier.

## Installation and Wiring

To connect the loudspeaker systems to the amplifier, use two-conductor insulated wire. Your JBL dealer can recommend suitable cables, or you can buy wire at most hardware stores. We recommend #16 AWG wire as a minimum size. Connections are made at the terminals located on the back of the loudspeaker system. The push terminal connectors accept bare wires.

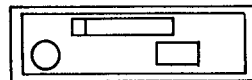
In areas where abrasion or excessive flexing can occur, guard against failure of the wire's insulating layer. Electrically shorted wires can damage both your electronics and loudspeakers.

# GT-M80/GT-M100 SUBWOOFER SPEAKER SYSTEM

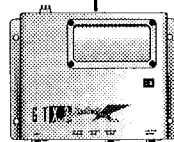
An optional  
Passive  
Crossover  
Network may  
be used here  
for single  
and multiple  
amp  
installations.

To other  
JBL speakers.

JBL Amplifier



Receiver



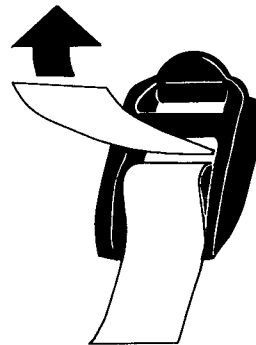
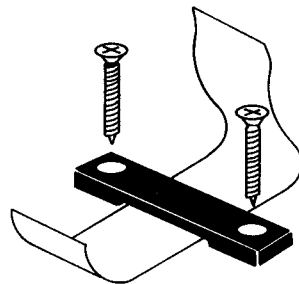
Use a JBL  
Electronic Crossover  
for multi-amp  
installations.

To second JBL  
amplifier

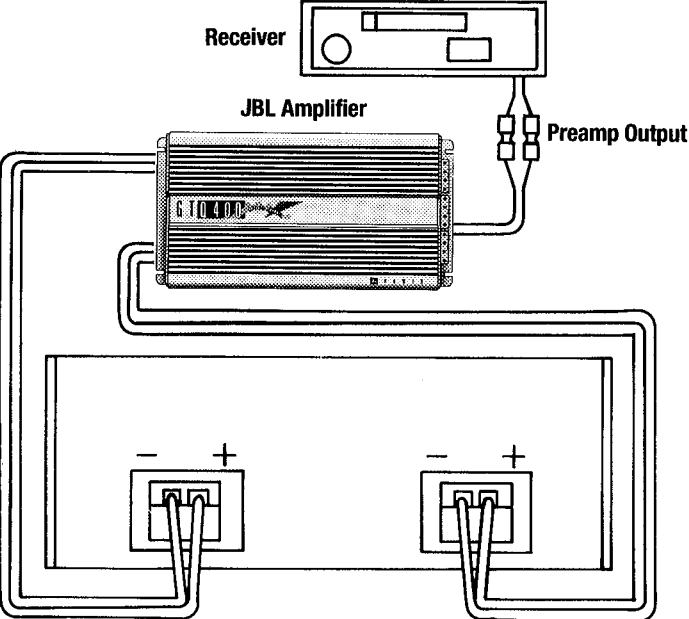
Configure amplifier in  
bridged mono for a  
single JBL subwoofer  
application. (See the  
amplifier's owners  
manual).

When two JBL subwoofers  
are used, configure the  
amplifier in stereo mode  
(see the amplifier's owners  
manual).

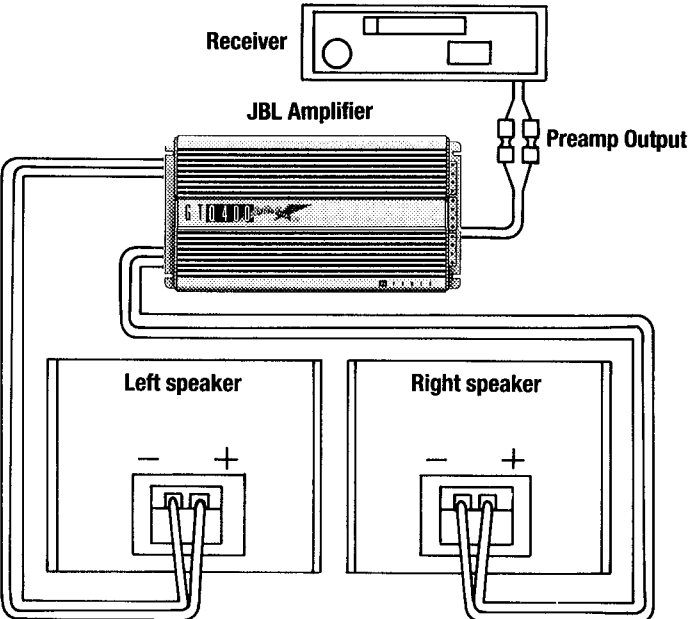
Installing JBL tie-down straps  
with your JBL subwoofer.



# GT-B10/GT-B12 SINGLE GT SPEAKER SYSTEM

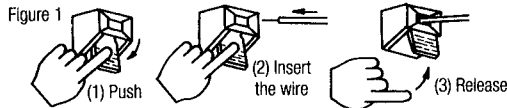


# GT-B210 TWO PIECE GT SPEAKER SYSTEM



### Preparing the hookup wire

1. Strip off 3/8" of insulation from both ends of each conductor.
2. Twist each set of thin wires into a tightly-bunched spiral.
3. At this point you need to identify a visual difference between the two conductors of each molded pair of speaker wire. Differentiating marks can be a different color wire (copper or "silver"); a strand of yarn in one conductor; thin, raised ribs on one part of the outer insulation; or a printed "+" marking on one of the insulators. It does not make a difference which of the two conductors of wire go to (+) and (-) on the speakers and amplifier, as long as both speakers are connected identically. However, in order to maintain polarity between all of the speakers in the system, you should adhere to the same (+) and (-) designation method for all speakers. Push down on the button below the terminal and insert the wire through the hole (see Fig. 1).



For each channel, the red terminal on the loudspeaker should be connected to the red or (+) loudspeaker connection terminal on the receiver or amplifier, and the black to the black or (-). Connecting the loudspeakers in this manner ensures that they will be in phase; that is, work together rather than in opposition. Connecting the loudspeakers out of phase will not damage them, but will result in less bass and poor imaging.

## TROUBLESHOOTING

The vast majority of new speaker "malfunctions" end up being traced to connections or switch settings. To avoid packing up correctly functioning speakers and sending them off, only to find that they're not really at fault, check the following tips first, before requesting service.

### **No sound from one speaker**

1. Balance control turned all the way left or right.
2. Speaker wire has become disconnected.

3. One of the connections between sound source and amplifier is faulty or has become disconnected.

### **Both speakers play at low volumes but shut off as volume is increased OR sound turns on and off intermittently**

A few strands of speaker wire may be shorting out. Recheck the connections. Recheck the impedance requirements of the amp.

### **Bass is very weak AND/OR sound seems to come from, instead of between the speakers**

1. The polarity (+&-) of one speaker has been reversed relative to the other. Double check connections.
2. Speakers are too far away from back and side walls of car. Experiment again with the speaker placement. If you are still experiencing problems, consult your JBL dealer.

# SPECIFICATIONS

| Model                     | GT-M80                                        | GT-M100                                       | GT-B10                                                                                                | GT-B12                                                                                                | GT-B210                                                                                               |
|---------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Configuration             | Tube Subwoofer                                | Tube Subwoofer                                | 3-Way 2 Channel Single                                                                                | 3-Way 2 Channel Single                                                                                | 3-Way Mirror Image pair                                                                               |
| Description               | 8" Poly Laminate Woofer                       | 10" Poly Laminate Woofer                      | Two 10" Poly Fiber Woofers<br>Two 4" Poly Fiber Midrange<br>Speakers<br>Two ¾" Titanium Dome Tweeters | Two 12" Poly Fiber Woofers<br>Two 4" Poly Fiber Midrange<br>Speakers<br>Two ¾" Titanium Dome Tweeters | Two 10" Poly Fiber Woofers<br>Two 4" Poly Fiber Midrange<br>Speakers<br>Two ¾" Titanium Dome Tweeters |
| Peak Power Handling       | 200W                                          | 240W                                          | 200W/CH                                                                                               | 240W/CH                                                                                               | 200W/CH                                                                                               |
| Continuous Power Handling | 100W                                          | 120W                                          | 100W/CH                                                                                               | 120W/CH                                                                                               | 100W/CH                                                                                               |
| Impedance (ohms)          | 4                                             | 4                                             | 4                                                                                                     | 4                                                                                                     | 4                                                                                                     |
| Sensitivity (dB)          | 90                                            | 90                                            | 90                                                                                                    | 90                                                                                                    | 90                                                                                                    |
| Frequency Response        | 40 Hz-2,000 Hz                                | 35 Hz-1,500 Hz                                | 35 Hz-20,000 Hz                                                                                       | 30 Hz-20,000 Hz                                                                                       | 40 Hz-20,000 Hz                                                                                       |
| Dimensions (H x W x D)    | 10½" Dia.<br>x 18¼" Long<br>(267 mm x 464 mm) | 12½" Dia.<br>x 23¾" Long<br>(318 mm x 588 mm) | 11" x 32¾" x 16¼"<br>(280 mm x 832 mm x 410 mm)                                                       | 13" x 36¾" x 18"<br>(330 mm x 934 mm x 457 mm)                                                        | 15" x 19½" x 7" each<br>(381 mm x 495 mm x 178 mm)                                                    |